

Title (en)
RIVETING STRUCTURE OF ELECTRODE TERMINAL, AND SECONDARY BATTERY, BATTERY PACK, AND AUTOMOBILE COMPRISING SAME

Title (de)
NIETSTRUKTUR EINES ELEKTRODENANSCHLUSSES SOWIE SEKUNDÄRBATTERIE, BATTERIEPACK UND AUTOMOBIL DAMIT

Title (fr)
STRUCTURE DE RIVETAGE DE BORNE D'ÉLECTRODE, ET BATTERIE SECONDAIRE, BLOC-BATTERIE ET AUTOMOBILE LA COMPRENANT

Publication
EP 4199206 A4 20240904 (EN)

Application
EP 22756554 A 20220218

Priority

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- KR 2022002437 W 20220218

Abstract (en)
[origin: EP4199206A1] The present specification provides a riveting structure of an electrode terminal and a secondary battery including the same, the riveting structure including a battery can opened at one side thereof, an electrode terminal riveted through a through-hole formed in a bottom of the battery can, and a gasket interposed between the battery can and the electrode terminal, in which the electrode terminal includes a body portion inserted into the through-hole, an outer flange portion extending along an outer surface of the bottom of the battery can from a periphery of a first side of the body portion exposed through the outer surface of the bottom of the battery b, and an inner flange portion extending toward an inner surface of the bottom of the battery can from a periphery of a second side of the body portion exposed through the inner surface of the bottom of the battery can, in which the body portion and the outer flange portion respectively have inner cavities connected to each other, and in which the inner flange portion has an opening portion connected to the inner cavities and opened in a direction toward an inside of the battery can.

IPC 8 full level
H01M 50/179 (2021.01); **H01M 10/04** (2006.01); **H01M 10/052** (2010.01); **H01M 50/172** (2021.01); **H01M 50/188** (2021.01); **H01M 50/249** (2021.01); **H01M 50/519** (2021.01); **H01M 50/538** (2021.01); **H01M 50/543** (2021.01); **H01M 50/559** (2021.01); **H01M 50/567** (2021.01)

CPC (source: CN EP KR US)
H01M 10/04 (2013.01 - EP); **H01M 10/0422** (2013.01 - KR US); **H01M 10/0431** (2013.01 - US); **H01M 10/052** (2013.01 - CN EP KR); **H01M 50/172** (2021.01 - CN EP); **H01M 50/179** (2021.01 - EP KR); **H01M 50/188** (2021.01 - EP KR US); **H01M 50/213** (2021.01 - US); **H01M 50/249** (2021.01 - CN EP); **H01M 50/519** (2021.01 - CN EP); **H01M 50/538** (2021.01 - EP KR); **H01M 50/543** (2021.01 - CN EP); **H01M 50/559** (2021.01 - EP KR US); **H01M 50/567** (2021.01 - EP KR US); **H01M 2220/20** (2013.01 - CN KR US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)

- [A] JP H08180849 A 19960712 - FUJI ELECTROCHEMICAL CO LTD
- [A] JP 2012124008 A 20120628 - PANASONIC CORP
- [A] US 2009029240 A1 20090129 - GARDNER WILLIAM H [US], et al
- [A] JP H03203157 A 19910904 - SANYO ELECTRIC CO
- See also references of WO 2022177356A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 4199206 A1 20230621; **EP 4199206 A4 20240904**; CN 114976405 A 20220830; CN 217306617 U 20220826; JP 2023542316 A 20231006; KR 20220118944 A 20220826; US 2023327303 A1 20231012; WO 2022177356 A1 20220825

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EP 22756554 A 20220218; CN 202210149926 A 20220218; CN 202220338032 U 20220218; JP 2023517288 A 20220218; KR 20220021454 A 20220218; KR 2022002437 W 20220218; US 202218027053 A 20220218